



BHARAT HEAVY ELECTRICALS LTD

VALVES PURCHASE
Trichy - 620 014. India

Terms and Conditions-Check list

<u>BHEL Terms and conditions</u>	<u>Vendor confirmation</u>
a. Terms of Payment: <u>Indigenous:</u> 100% payment after 45 days on acceptance of material.	
b. Liquidated Damage: A sum equivalent to 0.5% of price for each week of delay up to a maximum of 10% of the total value.	
c. Delivery Terms: Price should be quoted FOR BHEL Trichy only. Freight should be included in the offer.	
d. Validity of Offer: Prices should be valid for 120 days from the date of opening of this tender.	
e. Risk Purchase: Alternatively the purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of seller either the whole of goods or any part which the supplier has failed to deliver or dispatch within the time stipulated as aforesaid or if the same were not available, the best and the nearest available substitute therefore. Supplier shall be liable for any loss which the purchaser may sustain by reason for such risk purchases in addition to penalty.	
f. Miscellaneous: Any condition which might have been quoted by the seller and are in contravention to the terms prescribed in order and which have not been specifically accepted by Purchaser will not be applicable to the contract.	
g. Delivery period: Delivery schedule shall be strictly as per BHEL tender requirement which are as indicated against each item in our tender.	
h. Inspection: material should be inspected as per standards/BHEL specification.	
i. Schedule of Deviation: Schedule of deviation should be signed and filled with offer in below format	

SCHEDULE OF DEVIATIONS

Enq Ref:

Offer Ref:

Date:

Commercial Deviation:

Clause No.	Description	Supplier Deviation

Technical Deviation:

Clause No.	Description	Supplier Deviation

We confirm acceptance of all the Technical and Commercial requirements as per BHEL Tender, except the above deviations.

Signature with Seal

ANNEXURE FOR ENQ PROPOSAL**EN-SFM-662**

S.NO	Material	Material Description	drawing	ENQ QTY
1	964656140000	SCREW PLUG-2230	4V223027079	4500
2	964656150000	SEALING NUT-2230	4V223027080	4000
3	964656160000	LOCK NUT-5903	4V590327081	10000
4	964656170000	LOCK NUT-5904	4V590427082	7500
5	964656180000	LOCK NUT-2230	4V223027083	4000
6	964656190000	LOCK NUT-5907	4V590727084	1000
7	964656200000	LOCK NUT-5906	4V590627085	750
8	964661770000	PIN-0002	3V000221906	100
9	964661780000	PIN-0003	3V000321906	250
10	964661790000	PIN-0004	3V000421906	1500
11	964661800000	PIN-0005	3V000521906	1500
12	964661810000	PIN-0006	3V000621906	1200
13	964661820000	PIN-0008	3V000821906	350
14	964661830000	PIN-L113	3VL11321906	100
15	964661860000	NUT-L001	3VL00121908	100
16	964661870000	NUT-L002	3VL00221908	100
17	964661880000	NUT-L003	3VL00321908	100
18	964661890000	NUT-L025	3VL02521908	300
19	964661900000	NUT-L029	3VL02921908	100
20	964661910000	NUT-L033	3VL03321908	100
21	964661920000	NUT-L049	3VL04921908	100
22	964661930000	NUT-L140	3VL14021908	150
23	964661940000	NUT-L401	3VL40121908	100
24	964661950000	NUT-L413	3VL41321908	100
25	964661960000	NUT-L433	3VL43321908	100
26	964661970000	NUT-L435	3VL43521908	100
27	964662300000	EYE BOLT-W001	3VW00121914	900
28	964662320000	EYE BOLT-G004	3VG00421914	500
29	964662330000	EYE BOLT-W049	3VW04921914	500
30	964662340000	EYE BOLT-W002	3VW00221914	400
31	964662350000	EYE BOLT-W065	3VW06521914	400
32	964662360000	EYE BOLT-G002	3VG00221914	350
33	964662370000	EYE BOLT-G041	3VG04121914	350
34	964662400000	EYE BOLT-L073	3VL07321914	200
35	964662410000	EYE BOLT-W077	3VW07721914	100
36	964662420000	EYE BOLT-R025	3VR02521914	100
37	964662430000	EYE BOLT-R065	3VR06521914	100
38	964662450000	EYE BOLT-W003	3VW00321914	100
39	964662510000	EYE BOLT-W113	3VW11321914	100
40	964662520000	EYE BOLT-R057	3VR05721914	100
41	964661990000	WASHER-0001	3V000121909	100
42	964662000000	WASHER-0002	3V000221909	100
43	964662010000	WASHER-0003	3V000321909	100
44	964662020000	WASHER-0004	3V000421909	100
45	964662030000	WASHER-0005	3V000521909	100
46	964662040000	WASHER-0006	3V000621909	200

47	964662050000	WASHER-0007	3V000721909	100
48	964662060000	WASHER-0010	3V001021909	200
49	964662070000	WASHER-0012	3V001221909	100
50	964662080000	WASHER-0013	3V001321909	200
51	964662090000	WASHER-0014	3V001421909	100
52	964662240000	WASHER-0044	3V004421911	100
53	964662250000	WASHER-0030	3V003021911	100
54	964662260000	WASHER-0034	3V003421911	100
55	964662270000	WASHER-0038	3V003821911	100
56	964662280000	WASHER-V329	3VV32921911	10500

SCHEDULE OF DEVIATIONS

Enq Ref:

Offer Ref:

Date:

Commercial Deviation:

Annexure / Clause No.	Description	Supplier Deviation

Technical Deviation:

Annexure / Clause No.	Description	Supplier Deviation

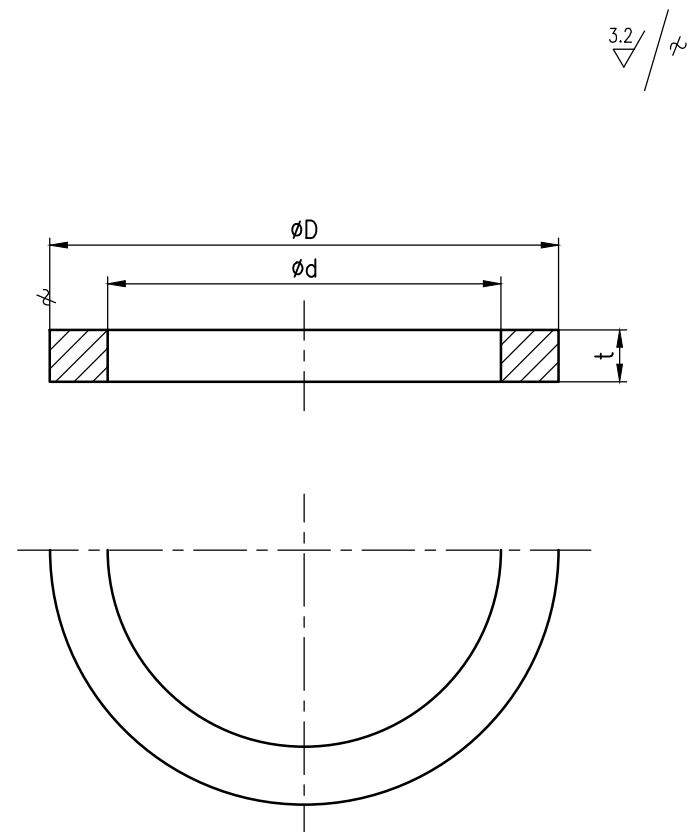
We confirm acceptance of all the Technical and Commercial requirements as per BHEL Tender, except the above deviations.

Signature with Seal

ALL DIMENSIONS ARE IN MILLIMETRES. FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP / QP.

3-V-0000-20704/4
DRAWING NO.

SL.No.	DRAWING NO.	RAW MATERIAL				DIMENSIONS			FINISHED WT IN KG.	COMP. CODE
		SUGGESTED SIZE	SPECN.	CODE	WT (KG.)	∅D	∅d	t		
1	3-V-0001-20704/2	∅45X8	A 276 - 410 CERTIFY	15024393	0.10	44	34	3	0.01	93 111 138 0000
2	3-V-0002-20704/2	∅56X8		15024272	0.15	52	39	3	0.02	93 111 139 0000
3	3-V-0003-20704/2	∅56X8		15024272	0.15	56	43.5	3	0.02	93 111 140 0000
4	3-V-0004-20704/2	∅75X8		-	0.28	72	51	3	0.05	93 111 141 0000
5	3-V-0005-20704/2	∅75X8		-	0.28	75	57	3	0.04	93 111 142 0000
6	3-V-0006-20704/2	∅80X8		15024115	0.32	80	61	3	0.05	93 111 143 0000
7	3-V-0007-20704/2	∅90X8		-	0.40	88	66	3	0.06	93 111 144 0000
8	3-V-0008-20704/2	∅100X8		15024217	0.49	95	69	3	0.08	93 111 145 0000
9	3-V-0009-20704/2	∅100X8		15024217	0.49	95	72.5	3	0.07	93 111 146 0000
10	3-V-0010-20704/2	∅100X8		15024217	0.49	98	76	3	0.07	93 111 147 0000
11	3-V-0011-20704/2	∅115X8		15024220	0.65	110	81	3	0.10	93 111 148 0000
12	3-V-0012-20704/2	∅115X8		15024220	0.65	115	86	3	0.11	93 111 149 0000
13	3-V-0013-20704/2	∅125X8		15024420	0.77	125	93	3	0.13	93 111 150 0000
14	3-V-0014-20704/2	∅125X8		15024420	0.77	125	96	3	0.12	93 111 151 0000
15	3-V-0015-20704/2	∅140X10		-	1.21	135	101	4	0.15	93 111 152 0000
16	3-V-0016-20704/2	∅145X10		-	1.30	145	111	4	0.16	93 111 153 0000
17	3-V-0017-20704/2	∅150X10		-	1.39	148	116	4	0.16	93 111 154 0000
18	3-V-0018-20704/2	∅110X8		-	0.60	105	79	3	0.09	93 111 155 0000
19	3-V-0019-20704/2	∅100X12		15924217	0.74	98	54	8	0.33	93 111 755 0000
20	3-V-0020-20704/1	∅210X10		-	2.93	200	146	5	0.58	93 123 996 0000
21	3-V-0021-20704/1	290X290-10		SA240 TYPE 310, NR. CERTIFY	15011724	6.60	280	213	7	1.42



REDRAWN WITH REV.1 ON 12.04.08

NOTE: LIQUID NITRIDING TO A DEPTH OF 0.1 TO 0.2mm ON ALL SURFACES
 (APPROXIMATE HARDNESS - 750-800 VICKERS)

REV	DATE	ALTERED VB	REV	DATE	ALTERED VB
4	01.09.14	CHD & APPD SSK & KRS	3	15.11.10	CHD & APPD SSK & KRS
IN NOTE LIQUID NITRIDING WAS TUFFTRIDING			SL.No.21 INCLUDED.		
DCP No.801803					
2	29.12.08	CHD & APPD KRS & MRK	1	12.04.08	CHD & APPD KRS&MRK
SL.No.20 INCLUDED.			DRAWING CONVERTED INTO SOFT COPY		
			DCP No.800813		

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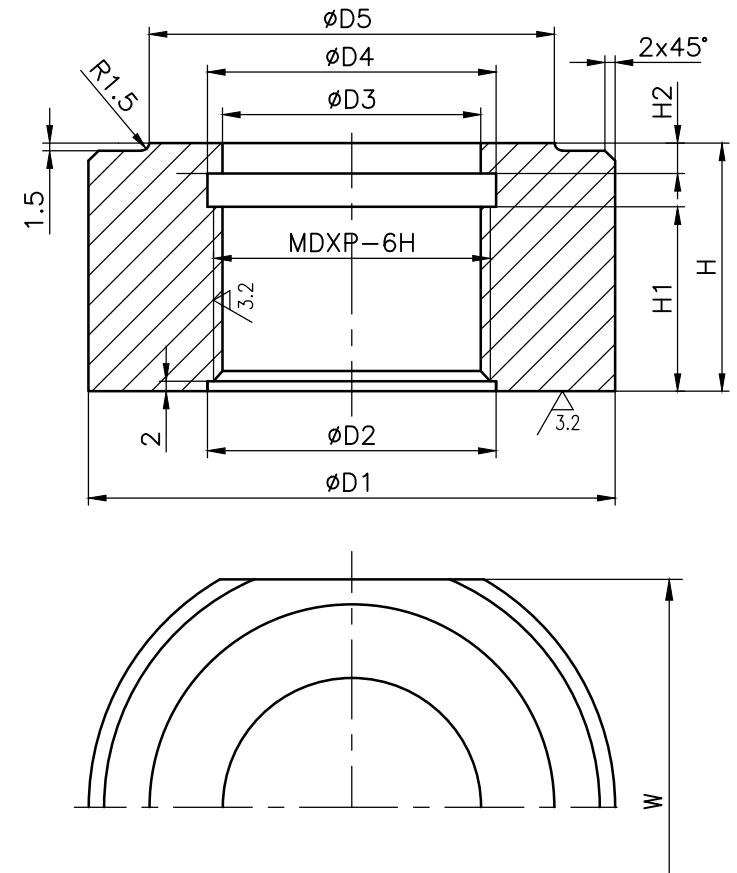
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
	TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT								
	BHARAT HEAVY ELECTRICALS LTD. UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.	DRN	V.BAIRAVAN	SIGN		DATE	12.04.08	NO.OF VAR.	
		CHD	K.RAJASEKARAN			DATE	12.04.08		
		APPD	M.RAJAKUMAR			DATE	12.04.08		
DEPT VL		SCALE	WEIGHT (KG).	REFERENCE INFORMATION			NO. OF ITEMS		
CODE		NTS							
TITLE	WASHER			CARD CODE	DRAWING NO.			REV	
	U 01	3-V-0000-20704						4	

ALL DIMENSIONS ARE IN MILLIMETRES. FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP / QP.

80617-0000-A-3
DRAWING NO.

8 12.5 / 3.2

SL No.	DRAWING No.	COMP. CODE	SPECN	DIMENSIONS										NET WT.(KG)	SIZE/RATING
				ØD1	ØD2	ØD3	ØD4	ØD5	MDXP-6H	H	H1	H2	W		
01	3-V-L001-21908	964661860000	A182 F22,NT, CERTIFY	47	25	19	25	34	M24X3	25	15	5	41	0.16	150/2500, 125/1500
02	3-V-L002-21908	964661870000		58	31	24	31	44	M30X3	30	20	5	50	0.38	200/2500,150/1500
03	3-V-L003-21908	964661880000		87	49	41	49	65	M48X3	40	30	5	75	0.97	250/1500,300/2500 300/1500
04	3-V-L025-21908	964661890000		37	21	16	21	29	M20X2.5	20.5	13.5	3	32	0.09	80/1500,80/2500,125/2500 100/1500,100/2500
05	3-V-L029-21908	964661900000		104	57	51	57	80	M56X3	49	38	6	90	1.66	350/1500,350/2500 400/2500
06	3-V-L033-21908	964661910000		122	69	62	69	95	M68X3	63	52	8	105	3.38	450/2500
07	3-V-L049-21908	964661920000		32	17	13	17	23	M16X2	17.5	11.5	3	27	0.07	65/1500,65/2500
08	3-V-L140-21908	964661930000		68	37	31	37	50	M36X3	35	25	5	60	0.71	200/1500,250/2500
09	3-V-L401-21908	964661940000		175	91	77	94	120	M90X3	83	70	8	150	11.5	600/3000SPL
10	3-V-L413-21908	964661950000	A182 F91 NT, CERTIFY	47	25	19	25	34	M24X3	25	15	5	41	0.16	150/3500
11	3-V-L433-21908	964661960000		37	21	16	21	29	M20X2.5	20.5	13.5	3	32	0.09	80/2500
12	3-V-L435-21908	964661970000	A182 F22 NT, CERTIFY	150	81	72	82	105	M80X3	74	62	8	130	7.24	550/2500
13	3-V-Z077-21908	964661980000		220	121	105	125	140	M120x3	90	75	10	190	18.6	950/300CL



NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No	
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT TA										
BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI-620014.						DRN	V.BAIRAVAN	SIGN	DATE	NO.OF VAR.
						CHD	S.SATHEES		18.03.14	
						APPD	K.RAJASEKARAN		18.03.14	
DEPT	VL	SCALE		WEIGHT (KG).	REFERENCE INFORMATION				NO. OF ITEMS	
CODE	320	N T S								
TITLE						CARD CODE	DRAWING NO.		REV	
NUT						U 01	3-V-0000-21908			

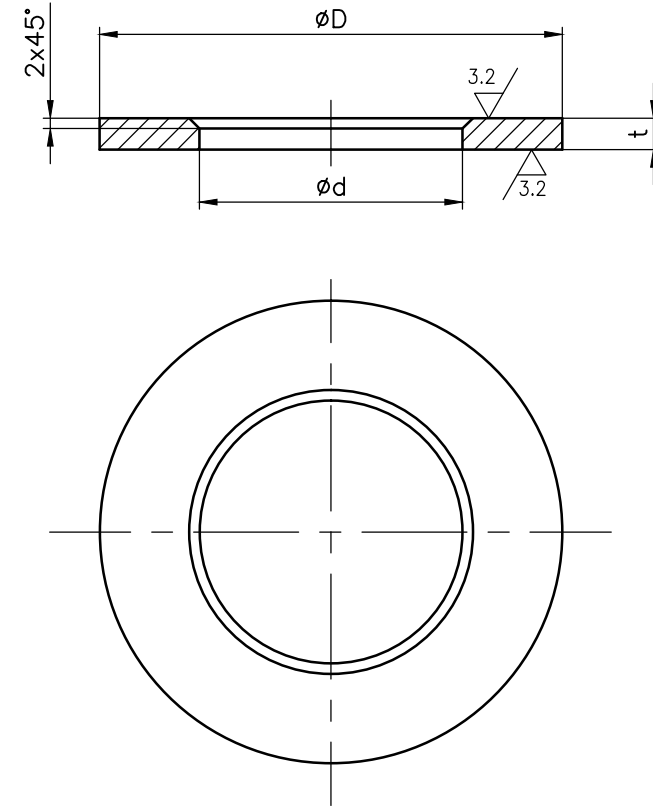
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REV	DATE	ALTERED
		CHD & APPD

ALL DIMENSIONS ARE IN MILLIMETRES. FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP / QP.

20 12.5 / 3.2

60612-0000-A-3 DRAWING NO.			MATL. SPECN.	DIMENSIONS			FINISH WT(Kg)
SL.NO.	DRAWING NO.	COMP. CODE		∅D	∅d	t	
01	3-V-0001-21909	964661990000	A276-410, AN, CERTIFY	140	70	8	0.72
02	3-V-0002-21909	964662000000		110	59	8	0.42
03	3-V-0003-21909	964662010000		88	50	6	0.19
04	3-V-0004-21909	964662020000		58	31.5	4.5	0.07
05	3-V-0005-21909	964662030000		48	25.5	4	0.04
06	3-V-0006-21909	964662040000		40	21	3.2	0.02
07	3-V-0007-21909	964662050000		32	17	2.6	0.01
08	3-V-0010-21909	964662060000		40	22	3.2	0.022
09	3-V-0012-21909	964662070000		32	18	2.6	0.012
10	3-V-0013-21909	964662080000		68	39	5	0.096
11	3-V-0014-21909	964662090000		110	60.5	8	0.412



NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No	
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT										
 BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI-620014.						DRN	NAME	SIGN	DATE	NO.OF VAR.
						CHD	V.BAIRAVAN		19.03.14	
						APPD	S.SATHEESKUMAR		19.03.14	
						APPD	K.RAJASEKARAN		19.03.14	
DEPT	VL	SCALE		WEIGHT (KG).	REFERENCE INFORMATION				NO. OF ITEMS	
CODE	320	N.T.S								
TITLE						CARD CODE	DRAWING NO.		REV	
WASHER						U 01	3-V-0000-21909			

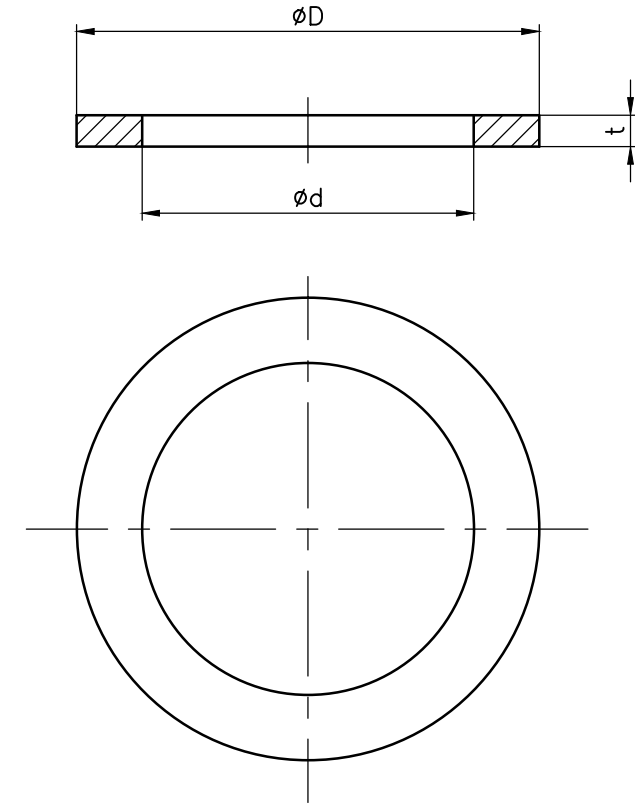
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REV	DATE	ALTERED
		CHD & APPD

ALL DIMENSIONS ARE IN MILLIMETRES. FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP / QP.

3.2 /

3-V-0000-21911 DRAWING NO.							
SL.NO.	DRAWING NO.	COMP. CODE	MATL. SPECN.	DIMENSIONS			FINISH WT(Kg)
				∅D	∅d	t	
01	3-V-0044-21911	964662240000	ASTM A105, NR, CERTIFY	100	68 ^{+0.120} ₀	5	0.18
02	3-V-0030-21911	964662250000		70	48 ^{+0.100} ₀	4	0.06
03	3-V-0034-21911	964662260000		80	52 ^{+0.120} ₀	5	0.11
04	3-V-0038-21911	964662270000		100	62 ^{+0.120} ₀	5	0.21
05	3-V-V329-21911	964662280000		39 ⁰ _{-0.8}	23 ^{+0.210} ₀	3	0.02



NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No	
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT										
 BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI-620014. 365-121						DRN	NAME	SIGN	DATE	NO.OF VAR.
						CHD	V.BAIRAVAN		20.03.14	
						APPD	S.SATHEESKUMAR		20.03.14	
						APPD	K.RAJASEKARAN		20.03.14	
DEPT	VL	SCALE		WEIGHT (KG).	REFERENCE INFORMATION				NO. OF ITEMS	
CODE	320	N.T.S								
TITLE						CARD CODE	DRAWING NO.		REV	
WASHER						U 01	3-V-0000-21911			

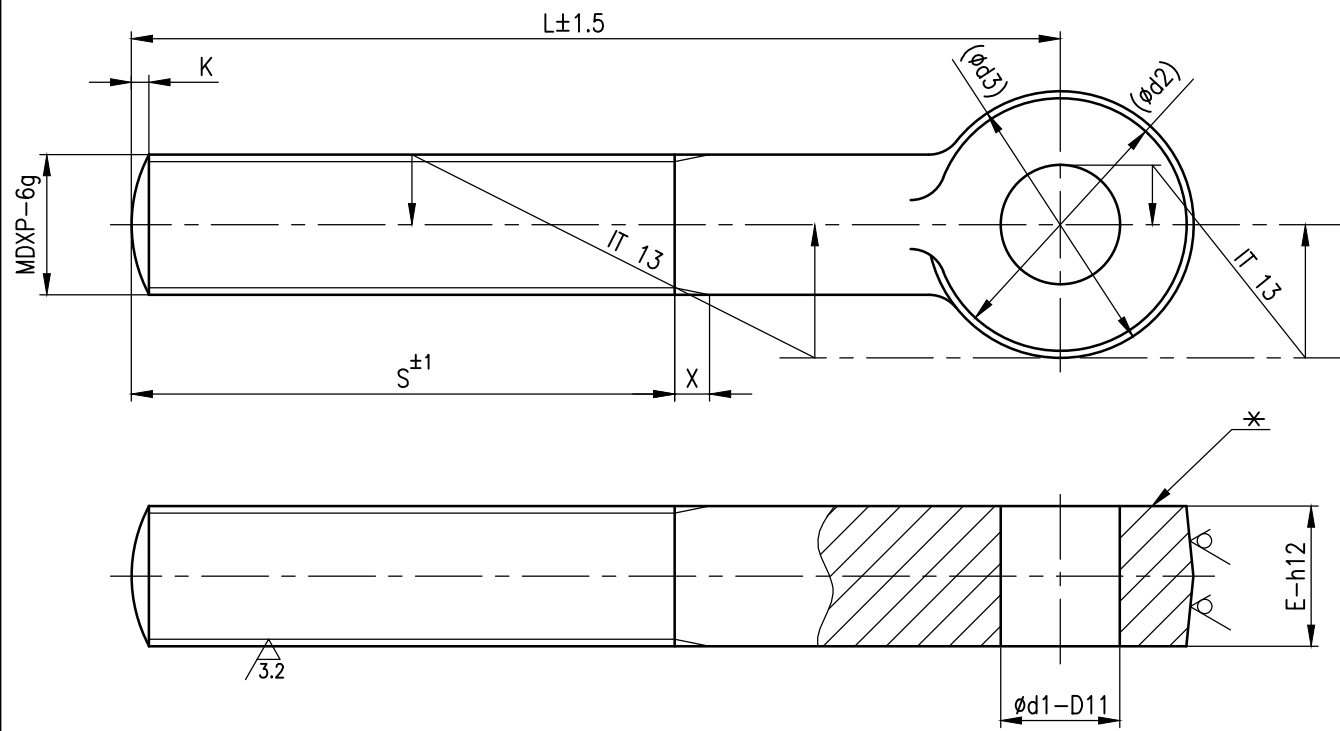
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REV	DATE	ALTERED
		CHD & APPD

3-V-0000-21914
DRAWING NO

S.NO	DRAWING NO.	COMPONENT CODE	MATL. SPECN.	DIMENSIONS								FINISHED WT IN KGS.	SIZE / RATING	
				MDXP	ØD1	(ØD2)	(ØD3)	L	S	E	K			X
1.	3-V-W001-21914	964662300000	A 193 - B7, CERTIFY	M20X2.5	17	36	38	132.5	77.5	20	2.5	5	0.37	65/2500, 80/1500, 100/1500
2.	3-V-W002-21914	964662340000		M22X2.5	21	42	45	152.5	82.5	22	2.5	5	0.60	100/2500; 250/1500
3.	3-V-W003-21914	964662450000		M30X3	25	56	60	163.5	103.5	30	3.5	6	1.30	200/2500; 250/1500
4.	3-V-W049-21914	964662330000		M16X2	13	30	32	122	62	16	2	4	0.20	80, 65/1500
5.	3-V-W065-21914	964662350000		M30X3	25	56	60	193.5	103.5	30	3.5	6	1.60	150/2500
6.	3-V-W073-21914	964662400000		M42X3	38	82	88	254.5	124.5	42	4.5	6	3.75	450/2500
7.	3-V-W077-21914	964662410000		M42X3	38	82	88	264.5	124.5	42	4.5	6	3.90	500/2750
8.	3-V-R025-21914	964662420000		M16X2	13	30	32	130	60	16	2	4	0.20	65/2500
9.	3-V-R065-21914	964662430000		M22X2.5	21	42	45	120	80	22	2.5	5	0.53	125/1500
10.	3-V-W113-21914	964662510000		M24X3	23	50	53	133	88	24	3	6	0.75	200/1500
11.	3-V-R057-21914	964662520000		M20X2.5	17	36	38	160	75	20	2.5	5	0.44	100/2500
12.	3-V-G001-21914	964662380000		M20X2.5	17	36	38	142.5	77.5	20	2.5	5	0.40	100/1500
13.	3-V-G002-21914	964662360000		M24X3	23	50	53	153	88	24	3	6	0.85	150/2500
14.	3-V-G004-21914	964662320000		M22X2.5	21	42	45	142.5	82.5	22	2.5	5	0.55	65/3500, 80/2500
15.	3-V-G041-21914	964662370000		M16X2	13	30	32	112	62	16	2	4	0.18	65/1500

	h12	D11
10 TO 18	0	+0.160
	-0.180	+0.050
19 TO 30	0	+0.195
	-0.210	+0.065
31 TO 50	0	+0.240
	-0.250	+0.080



NOTES :

01. EYE BOLT SHOULD BE MADE OUT OF FORGING.
02. * PUNCH MATL. MARK B7.
03. QUALITY REQUIREMENTS SHALL BE AS PER LATEST TDC.5:164.

NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No	
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT										
BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI-620014.						DRN	R.RAVINDHAR	SIGN	DATE	NO.OF VAR.
						CHD	S.SATHEES		28.03.14	
						APPD	K.RAJASEKARAN		28.03.14	
DEPT	VL	SCALE		WEIGHT (KG).		REFERENCE INFORMATION			NO. OF ITEMS	
CODE	320	N T S				PT40				
TITLE						CARD CODE	DRAWING NO.		REV	
EYE BOLT						U 01	3-V-0000-21914			

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REV	DATE	ALTERED
		CHD & APPD

ALL DIMENSIONS ARE IN MILLIMETRES. FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP / QP.

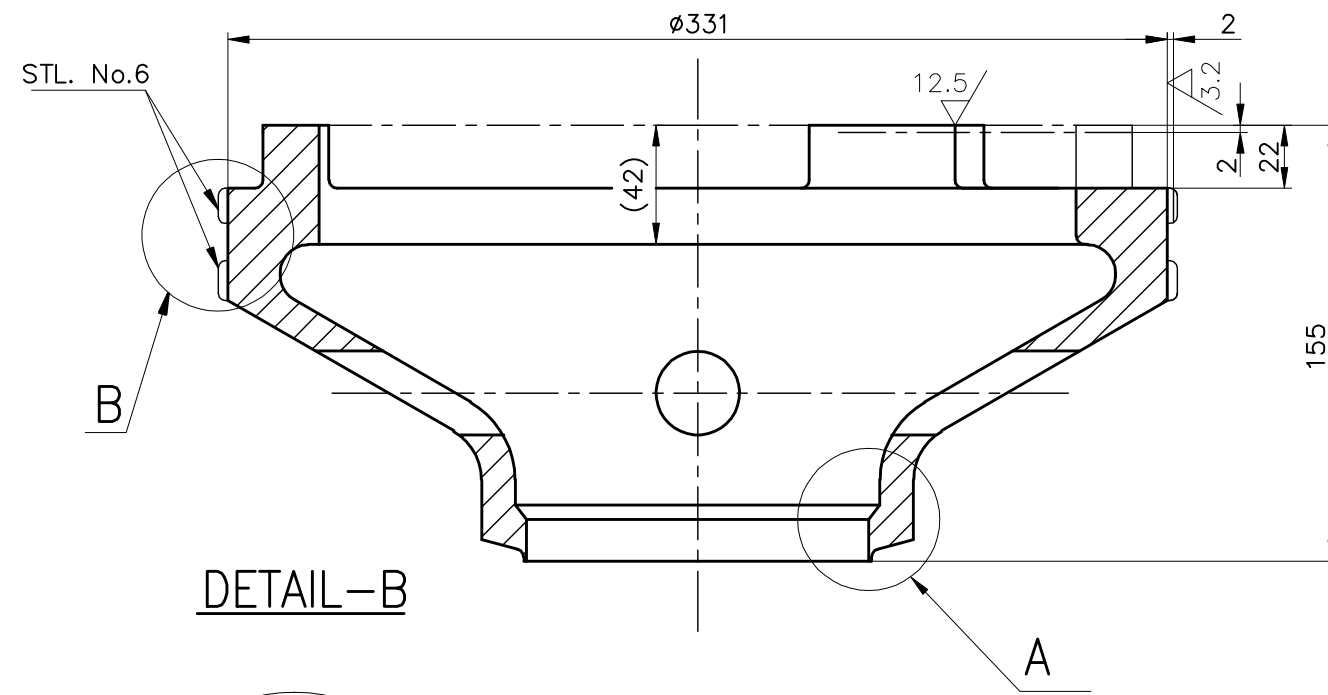
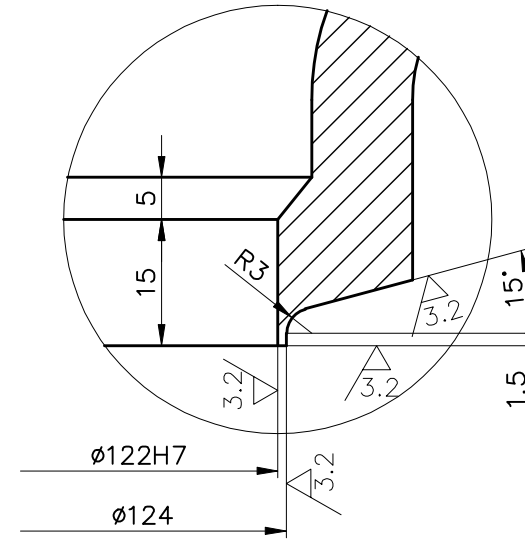
DRAWING NO. 3-V-L080-21556/1

5a

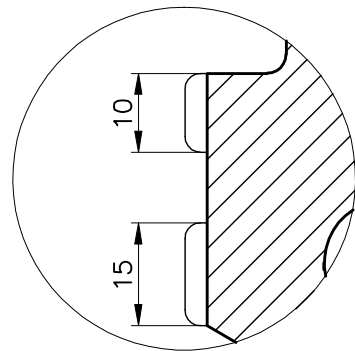
12.5 / 3.2

Ø122 H7	+0.040
	0

DETAIL-A



DETAIL-B



COMP. CODE: 931237060000

			A217 WC9 PRO. ATTEST	NT	20				
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No

TYPE OF PRODUCT
OR NAME OF
CUSTOMER/PROJECT

	BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI-620014.		DRN	V.BAIRAVAN	SIGN	DATE	NO.OF VAR.
	365-121		CHD	K.RAJASEKARAN		02.01.08	
			APPD	M.RAJAKUMAR		02.01.08	

DEPT	VL	SCALE	WEIGHT (KG).	REFERENCE INFORMATION	NO. OF ITEMS
CODE	320	N T S	22.0	CAD DRG No. T321556	

TITLE	CARD CODE	DRAWING NO.	REV
DISC (FOR STELLITE WELDING) ROUGH MACHINING	U 01	3-V-L080-21556	1

REV	DATE	ALTERED V.B
1	18.02.10	CHD & APPD SSK & KRS
DETAIL B INCLUDED		
DCP:NO: 801034		

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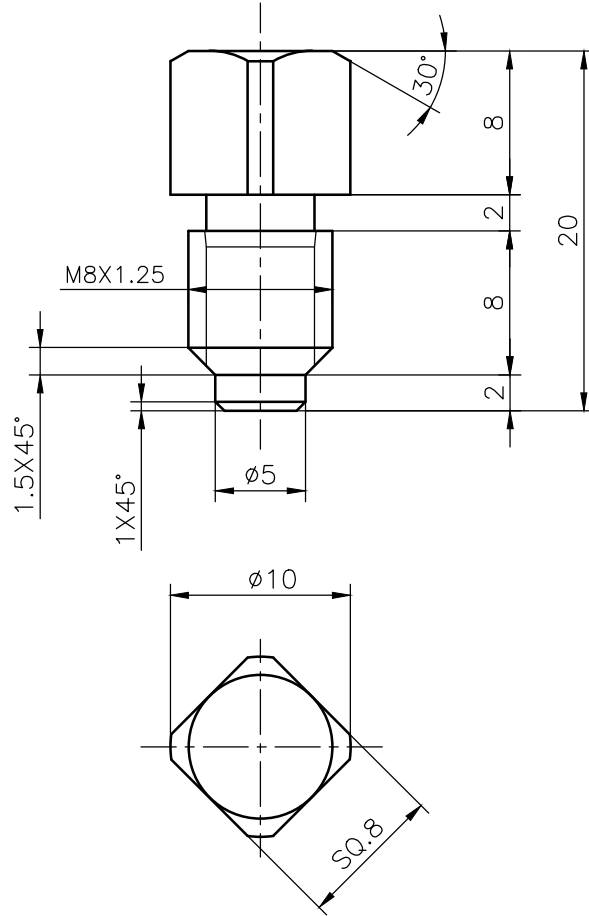
ALL DIMENSIONS ARE IN MILLIMETRES.

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP/QP

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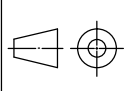
REV	DATE	ALTERED
		CHD & APPD

3.2 /



NOTE:-

1. MATERIAL: ASTM A182 F6a. CL.3
2. SQUARE HEAD TO BE POLISHED.

-	-	-	-	-	-	-	-	-	-
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
 365-122	BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT, TIRUCHIRAPALLI 620014.				DRN	R.RAVINDHAR	SIGN	DATE	NO.OF VAR
					CHD	S.SATHEES		03.03.14	
					APPD	K.RAJASEKARAN		03.03.14	
DEPT VL	/		SCALE	WEIGHT (KG).	REFERENCE INFORMATIONS				NO. OF ITEMS
CODE			NTS	0.01	COMP.CODE: 96 465 614 0000				
TITLE					CARD CODE	DRAWING NO.			REV
SCREW PLUG					U 01	4-V-2230-27079			

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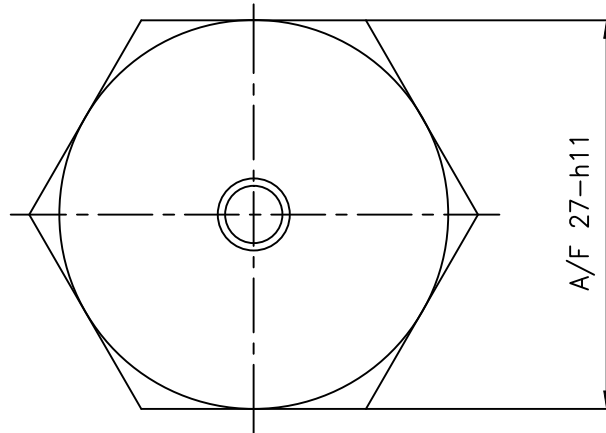
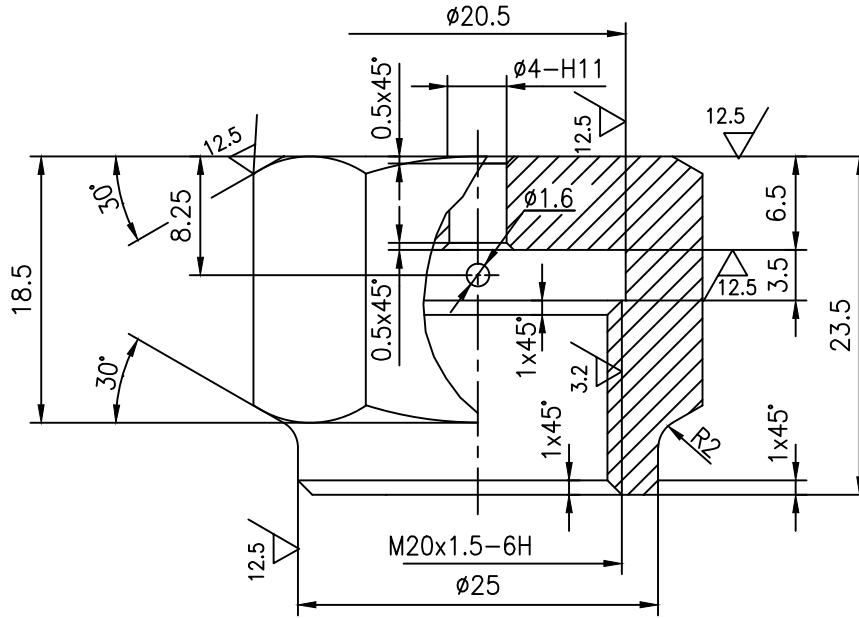
FOR TOLERANCES OF UNTOLERANCED DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETRES.
DURING MANUFACTURE REFER RELEVANT QCP/QP

REV	DATE	ALTERED
		CHD & APPD



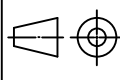
6.3 / 12.5 / 3.2

ø4-H11	+0.075
	0
27 h11	0
	-0.130



NOTE:

- MATERIAL: ASTM A182 F6A CL.3
- EXTERNAL SURFACE TO BE POLISHED.

-	-	-	-	-	-	-	-	-	-
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
	 BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014. 365-122								
		DRN	R.RAVINDHAR	SIGN	DATE	NO.OF VAR			
		CHD	S.SATHEES		03.03.14				
		APPD	K.RAJASEKARAN		03.03.14				
DEPT VL	 	SCALE	WEIGHT (KG).	REFERENCE INFORMATION				NO. OF ITEMS	
CODE 320		NTS	0.05	COMP. CODE: 96 465 615 0000					
TITLE					CARD CODE	DRAWING NO.			REV
SEALING NUT					U 01	4-V-2230-27080			

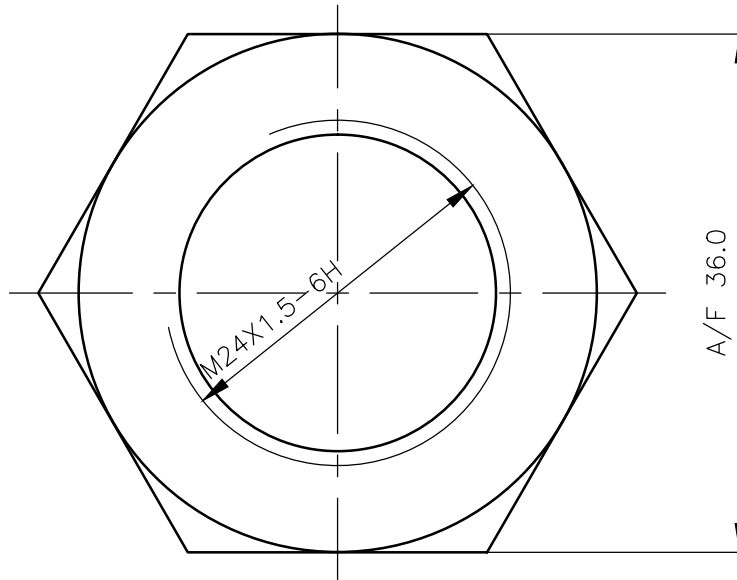
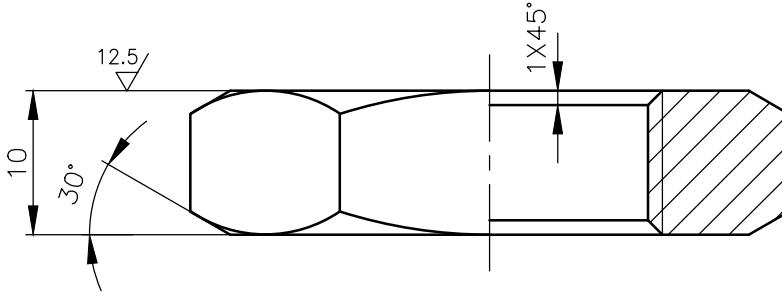
FOR TOLERANCES OF UNTOLERANCED DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETRES.
DURING MANUFACTURE REFER RELEVANT QCP/QP

REV	DATE	ALTERED
		CHD & APPD


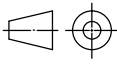
3.2 / 12.5

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NOTE:—

1. MATERIAL: ASTM A182 F6a.CL.3
2. EXTERNAL FACES TO BE POLISHED

—	—	—	—	—	—	—	—	—	—
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
 365-122	BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.	DRN	NAME		SIGN		DATE	NO. OF VAR	
		CHD	R.RAVINDHAR				03.03.14		
		APPD	S.SATHEES				03.03.14		
DEPT VL		SCALE	WEIGHT (KG).	REFERENCE INFORMATIONS				NO. OF ITEMS	
CODE 320		NTS	0.04	COMP.CODE: 96 465 618 0000					
TITLE				CARD CODE	DRAWING NO.				REV
LOCK NUT				U 01	4-V-2230-27083				

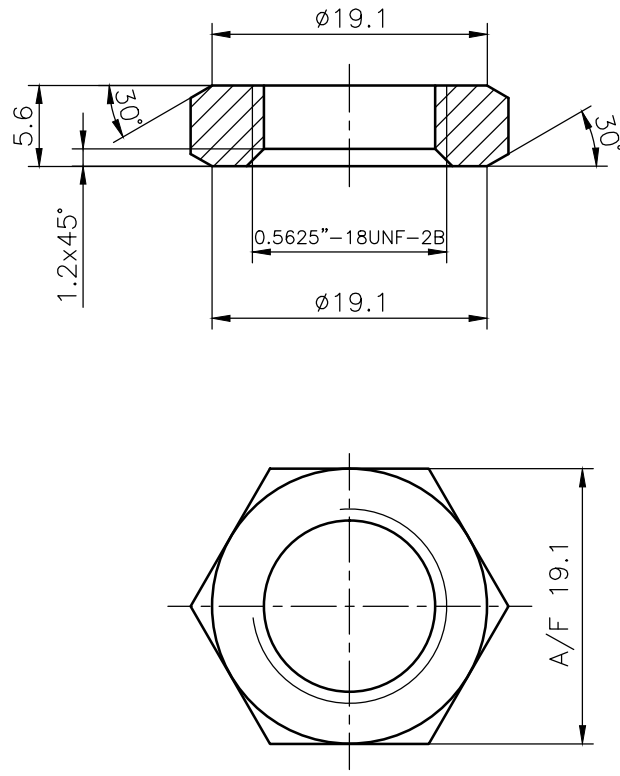
ALL DIMENSIONS ARE IN MILLIMETRES.

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP/QP

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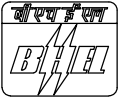
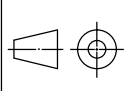
REV	DATE	ALTERED
		CHD & APPD

3.2 /



NOTE:-

1. MATERIAL: ASTM A194-2H.
2. ZINC PHOSPHATE AS PER LATEST APPLICABLE QUALITY PROCEDURE.

-	-	-	-	-	-	-	-	-	-
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
 365-122	BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT, TIRUCHIRAPALLI 620014.				DRN	R.RAVINDHAR	SIGN	DATE	NO.OF VAR
					CHD	S.SATHEES		03.03.14	
					APPD	K.RAJASEKARAN		03.03.14	
DEPT VL	/		SCALE	WEIGHT (KG).	REFERENCE INFORMATIONS				NO. OF ITEMS
CODE			NTS	0.01	COMP.CODE: 96 465 616 0000				
TITLE					CARD CODE	DRAWING NO.			REV
LOCK NUT					U 01	4-V-5903-27081			

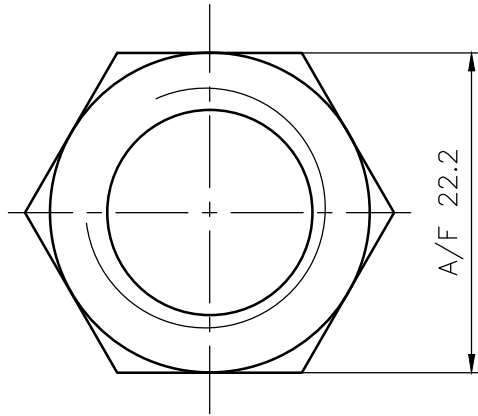
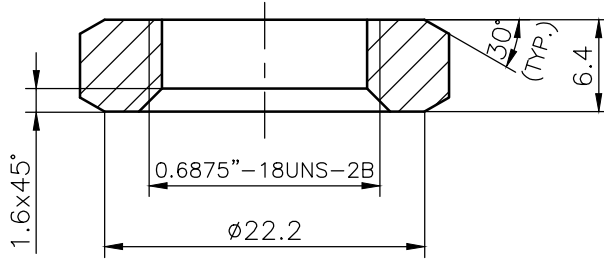
ALL DIMENSIONS ARE IN MILLIMETRES.

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP/QP

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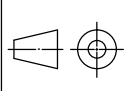
REV	DATE	ALTERED
		CHD & APPD

3.2 /



NOTE:—

1. MATERIAL: ASTM A194-2H.
2. ZINC PHOSPHATE AS PER LATEST APPLICABLE QUALITY PROCEDURE.

-	-	-	-	-	-	-	-	-	-
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
 365-122	BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.				DRN	NAME	SIGN	DATE	NO.OF VAR
					CHD	R.RAVINDHAR		03.03.14	
					APPD	S.SATHEES		03.03.14	
DEPT VL	/		SCALE	WEIGHT (KG).	REFERENCE INFORMATIONS				NO. OF ITEMS
CODE 320			NTS	0.01	COMP.CODE: 96 465 617 0000				
TITLE					CARD CODE	DRAWING NO.			REV
LOCK NUT					U 01	4-V-5904-27082			

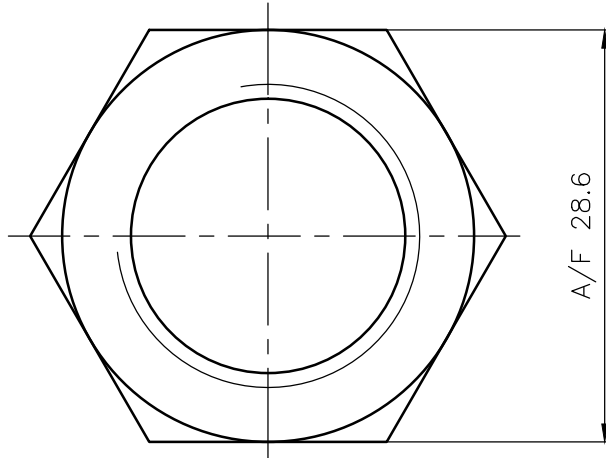
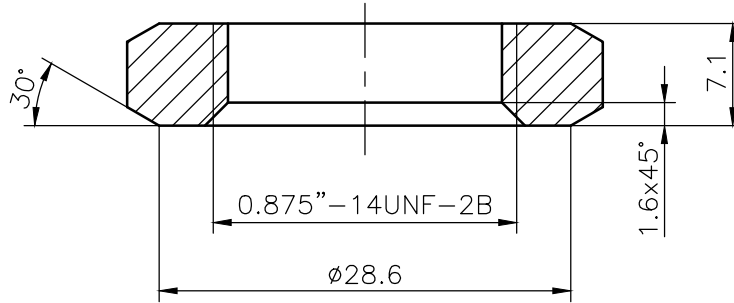
ALL DIMENSIONS ARE IN MILLIMETRES.

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP/QP

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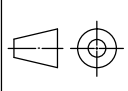
REV	DATE	ALTERED
		CHD & APPD

3.2 /



NOTE:-

1. MATERIAL: ASTM A194-2H.
2. ZINC PHOSPHATE AS PER LATEST APPLICABLE QUALITY PROCEDURE.

-	-	-	-	-	-	-	-	-	-	
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No	
 365-122	BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.				DRN	NAME R.RAVINDHAR		SIGN	DATE 03.03.14	NO.OF VAR
					CHD	S.SATHEES			03.03.14	
					APPD	K.RAJASEKARAN			03.03.14	
DEPT VL	/		SCALE	WEIGHT (KG).	REFERENCE INFORMATIONS				NO. OF ITEMS	
CODE 320			NTS	0.02	COMP.CODE: 96 465 620 0000					
TITLE					CARD CODE	DRAWING NO.			REV	
LOCK NUT					U 01	4-V-5906-27085				

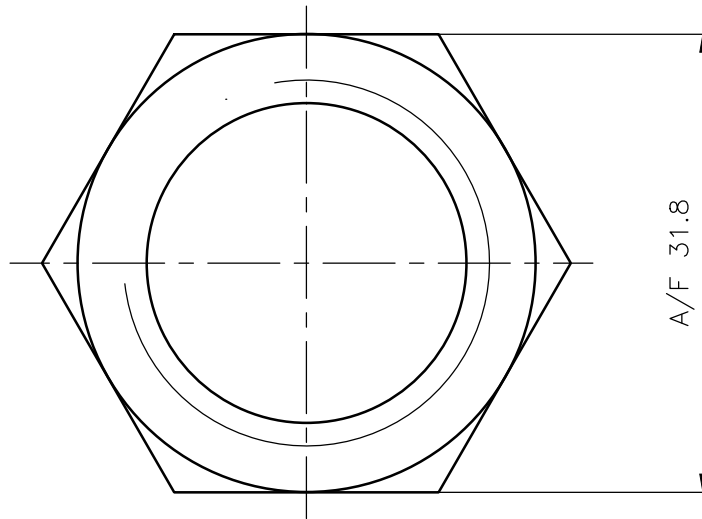
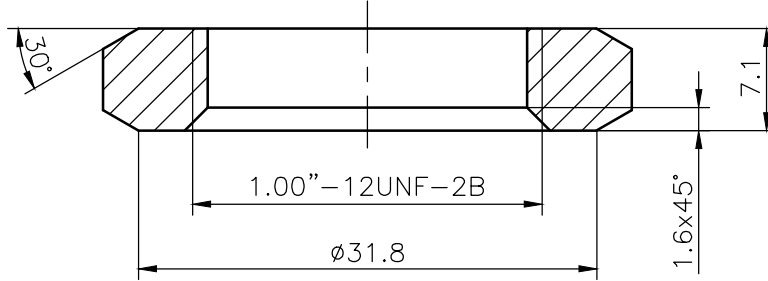
ALL DIMENSIONS ARE IN MILLIMETRES.

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP/QP

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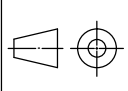
REV	DATE	ALTERED
		CHD & APPD

3.2 /



NOTE:—

1. MATERIAL: ASTM A194-2H.
2. ZINC PHOSPHATE AS PER LATEST APPLICABLE QUALITY PROCEDURE.

-	-	-	-	-	-	-	-	-	-
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
 365-122	BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT, TIRUCHIRAPALLI 620014.				DRN	R.RAVINDHAR	SIGN	DATE	NO.OF VAR
					CHD	S.SATHEES		03.03.14	
					APPD	K.RAJASEKARAN		03.03.14	
DEPT VL	/		SCALE	WEIGHT (KG).	REFERENCE INFORMATIONS				NO. OF ITEMS
CODE 320			NTS	0.02	COMP.CODE: 96 465 619 0000				
TITLE					CARD CODE	DRAWING NO.			REV
LOCK NUT					U 01	4-V-5907-27084			